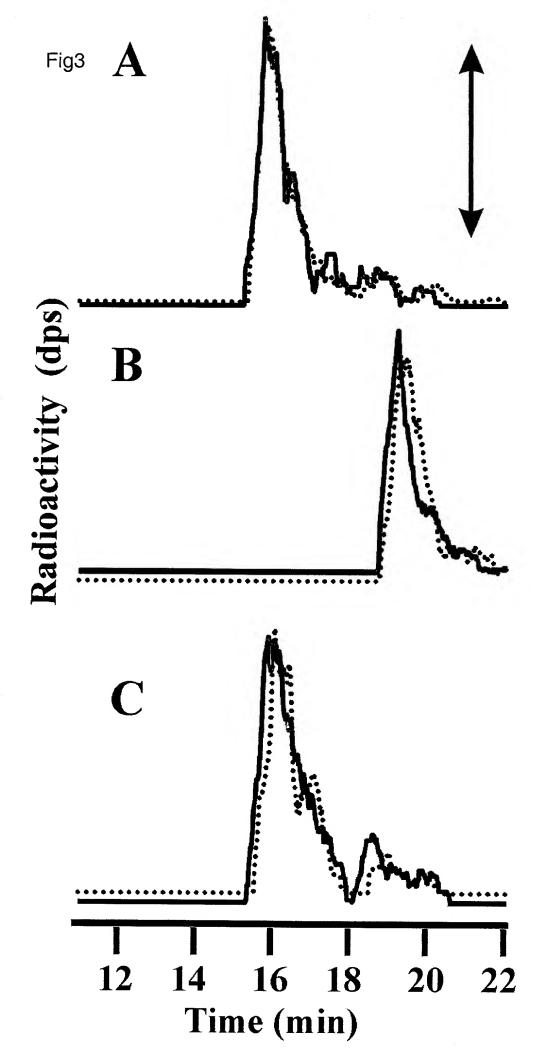
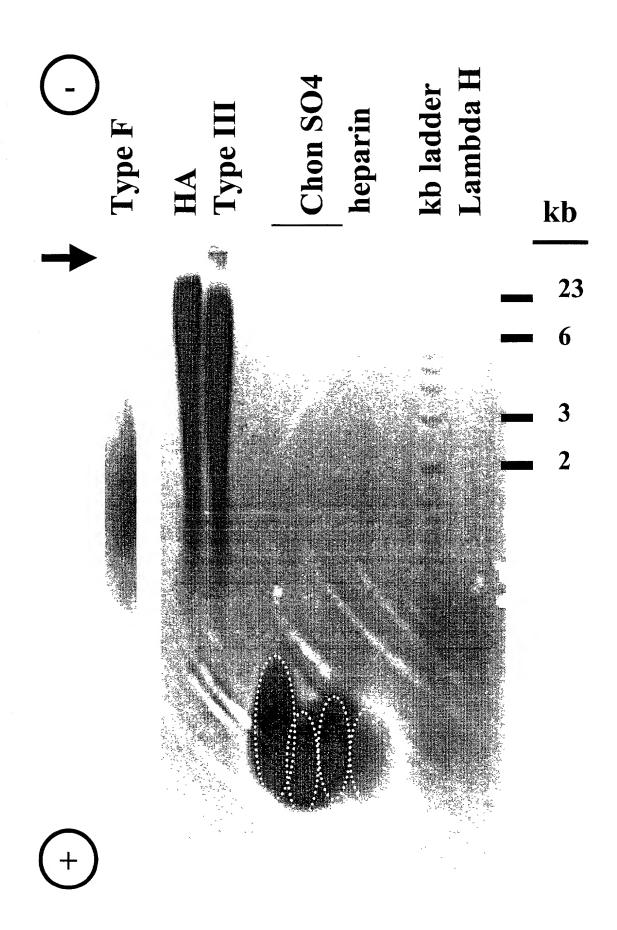
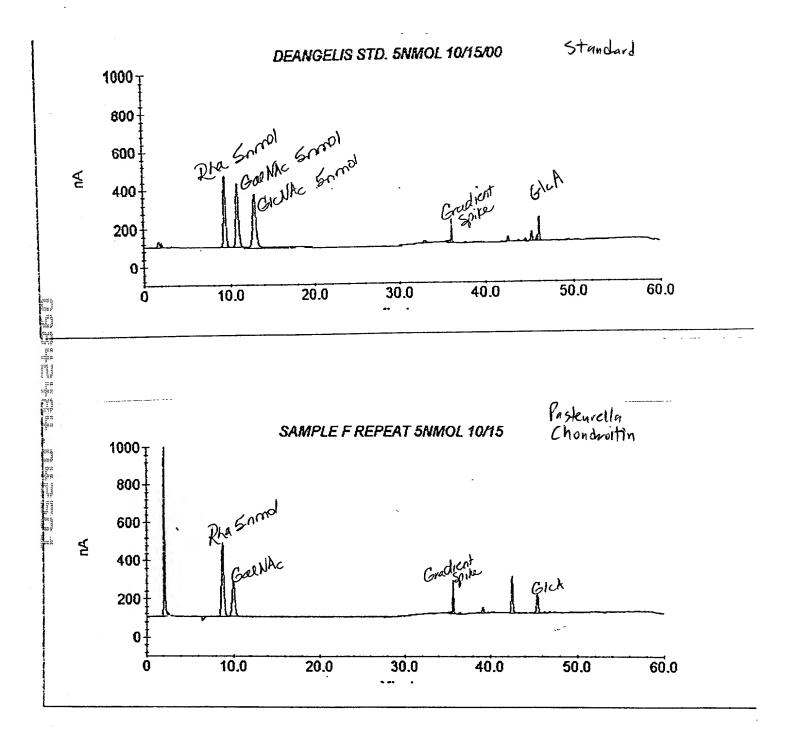
FIG. 1

PMCS PMHAS Consensus	MNTLSQAIKA	YNSNDYELAL YNSNDYQLAL YNSNDY#LAL	KLFEKSAEIY	GRKIVEFQIT	KCKEKLSAHP
PMCS PMHAS Consensus	51 YVS SVNSAHLSVN SVN	KEEKVNVCDS	PLDIATQLLL	SNVKKLTLSE SNVKKLVLSD SNVKKLTLS#	SEKNTLKNKW
PMCS PMHAS Consensus	KLLTEKKSEN	AEIRKVELVP AEVRAVALVP AE!RaVaLVP	KDFPKDLVLA	PLPDHVNDFT	WYKKRKKRLG
PMCS PMHAS Consensus	IKPEHQHVGL	SIIIPTFNRS SIIVTTFNRP SII!pTFNRp	AILSITLACL	VNQKTHYPFE	VIVTDDGSQE
PMCS PMHAS Consensus	DLSPIIRQYE	QKLDIKYVRQ NKLDIRYVRQ #KLDIrYVRQ	KDNGFQASAA	RNMGLRLAKY	DFIGLLDCDM
PMCS PMHAS Consensus	APNPLWVHSY	LTELLEDNDI VAELLEDDDL laELLED#Di	TIIGPRKYID	TQHIDPKDFL	NNASLLESLP
PmCS PmHAS Consensus	EVKTNNSVAA	TSKGNISLDW KGEGTVSLDW kgeGn!SLDW	RLEQFEKTEN	LRLSDSPFRF	350 FSCGNVAFSK FAAGNVAFAK FaaGNVAFAK
PmCS PmHAS Consensus	KWLNKSGFFD	EEFNHWGGED EEFNHWGGED EEFNHWGGED	VEFGYRLFRY	GSFFKTIDGI	MAYHQEPPGK
PmCS PmHAS Consensus	ENETDREAGK	SITLKIVKEK NITLDIMREK nITLdImrEK	VPYIYRKLLP	IEDSHINRVP	LVSIYIPAYN
PMCS PMHAS Consensus	CANYIQRCVD	SALNQTVVDL SALNQTVVDL SALNQTVVDL	EVCICNDGST	DNTLEVINKL	YGNNPRVRIM
PMCS PMHAS Consensus	SKPNGGIASA	SNAAVSFAKG SNAAVSFAKG SNAAVSFAKG	YYIGQLDSDD	YLEPDAVELC	LKEFLKDKTL
PMCS PMHAS Consensus	ACVYTTNRNV	NPDGSLIANG NPDGSLIANG NPDGSLIANG	YNWPEFSREK	LTTAMIAHHF	RMFTIRAWHL

	patent pmCS HAS align version 2					
PmCS PmHAS Consensus	TDGFNEKIEN	AVDYDMFLKL	SEVGKFKHLN SEVGKFKHLN SEVGKFKHLN	KICYNRVLHG	DNTSIKKLGI	
PMCS PMHAS Consensus	QKKNHFVVVN	QSLNRQGITY	YNYDKFDDLD YNYDEFDDLD YNYDEFDDLD	ESRKYIFNKT	AEYOEEIDIL	
PMCS PMHAS Consensus	KDIKIIQNKD	AKIAVSIFYP	NTLNGLVKKL NTLNGLVKKL NTLNGLVKKL	NNIIEYNKNI	FVIVI HVDKN	
PmCS PmHAS Consensus	HLTPDIKKEI	LAFYHKHQVN	ILLNNDISYY ILLNNDISYY ILLNNDISYY	TSNRLIKTEA	HLSNINKLSO	
PMCS PMHAS Consensus	LNLNCEYIIF	DNHDSLFVKN	DSYAYMKKYD DSYAYMKKYD DSYAYMKKYD	VGMNFSALTH	DWIEKINAHP	
PmCS PmHAS Consensus	PFKKLIKTYF	NDNDLRSMNV NDNDLKSMNV NDNDLrSMNV	KGASQGMFMT	YALPHELLTI YALAHELLTI YALAHELLTI	IKEVITSCOS	
PMCS PMHAS Consensus	IDSVPEYNTE	DIWFQFALLI	LEKKTGHVFN LEKKTGHVFN LEKKTGHVFN	KTSTLTYMPW	950 ERKLQWTNEQ ERKLQWTNEQ ERKLQWTNEQ	
PMCS PMHAS Consensus	IESAKRGENI	PVNKFIINSI PVNKFIINSI PVNKFIINSI	TL			

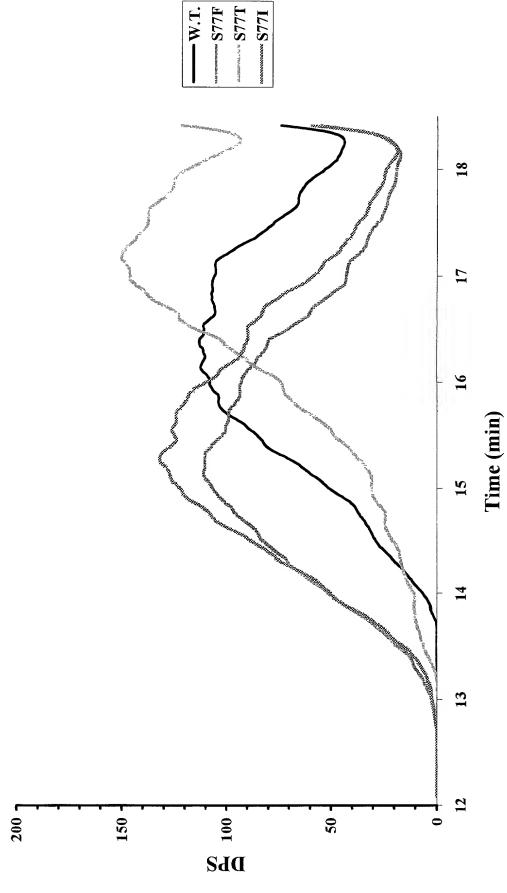






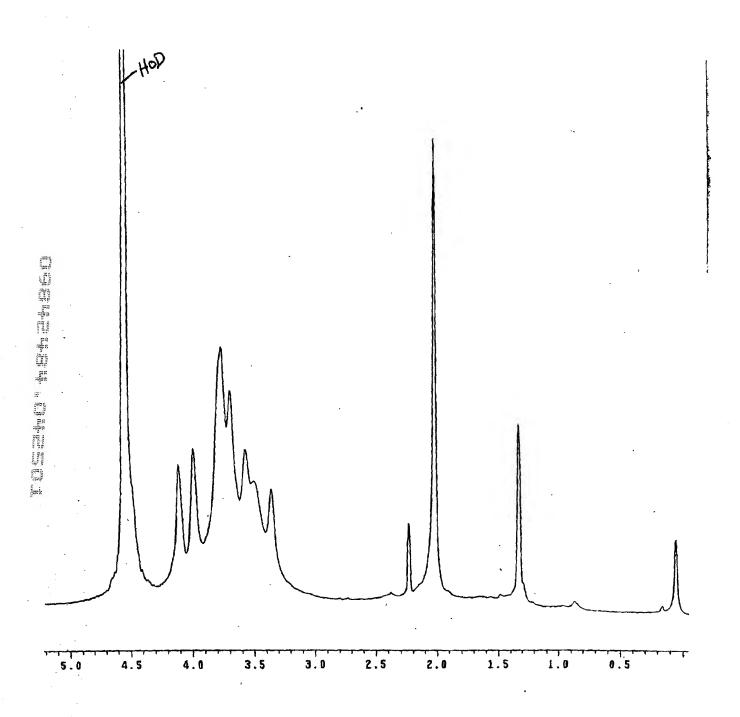
S77F S77T S77T HA Product Size (5 min assay) Time (min) 100 J 75 -25 -50 -Db2

HA Product Size (30 min assay)



Fia. 7

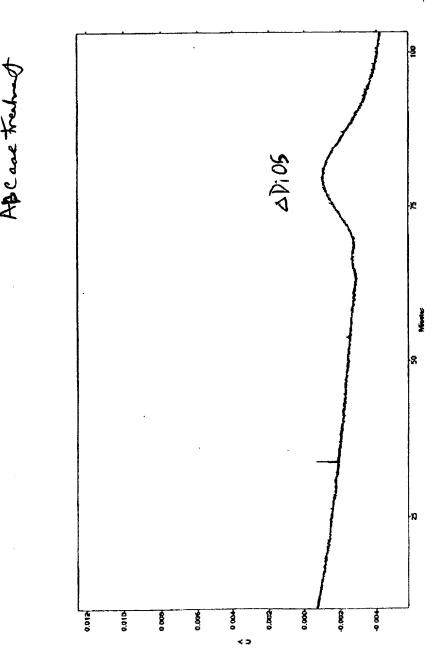
NMR of Type F Polymer



ppm

Fig. 8

ABCase treshing



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Minutes

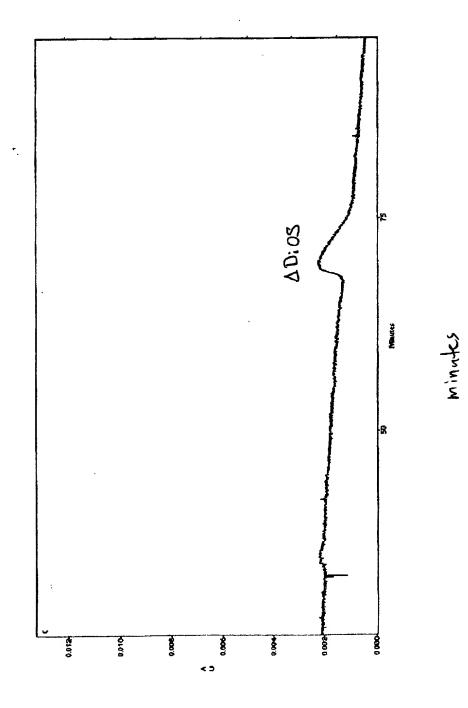


Fig. 10